SIEMENS

Data sheet

3RV2011-0AA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.11...0.16 A N-release 2.1 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	5.5 W
 at AC in hot operating state per pole 	1.8 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation in networks with grounded star point	
 between main and auxiliary circuit 	400 V
 between main and auxiliary circuit 	400 V
shock resistance acc. to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (switching cycles) typical	100 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
 ambient temperature during operation 	-20 +60 °C
 ambient temperature during storage 	-50 +80 °C
ambient temperature during transport	-50 +80 °C
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the	0.11 0.16 A



current-dependent overload release	
operating voltage rated value	690 V
operating voltage at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.16 A
operational current at AC-3 at 400 V rated value	0.16 A
operating power at AC-3	
 at 230 V rated value 	20 W
 at 400 V rated value 	40 W
 at 500 V rated value 	60 W
at 690 V rated value	60 W
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1A
• at 60 V	0.15 A
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity operating short-circuit current (lcs)	licina
at AC	
 at 240 V rated value 	100 kA
 at 400 V rated value 	100 kA
• at 500 V rated value	100 kA
• at 690 V rated value	100 kA
breaking capacity maximum short-circuit current (Icu)	
 at AC at 240 V rated value 	100 kA
 at AC at 400 V rated value 	100 kA
• at AC at 500 V rated value	100 kA
 at AC at 690 V rated value 	100 kA
response value current of instantaneous short-circuit trip unit	2.1 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	0.16 A
at 600 V rated value	0.16 A
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
 for short-circuit protection of the auxiliary switch 	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current
required	lk < 400 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail



	according to DIN EN 60715				
height	97 mm				
width	45 mm				
depth	97 mm				
required spacing					
• for grounded parts at 400 V					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
● for live parts at 400 V					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
 for grounded parts at 500 V 					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
● for live parts at 500 V					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
 for grounded parts at 690 V 					
— downwards	50 mm				
— upwards	50 mm				
— backwards	0 mm				
— at the side	30 mm				
— forwards	0 mm				
● for live parts at 690 V					
— downwards	50 mm				
— upwards	50 mm				
— backwards	0 mm				
— at the side	30 mm				
— forwards	0 mm				
Connections/ Terminals					
product function removable terminal for auxiliary and control circuit	No				
type of electrical connection					
for main current circuit	screw-type terminals				
 for auxiliary and control circuit 	screw-type terminals				
arrangement of electrical connectors for main current circuit	Top and bottom				
type of connectable conductor cross-sections • for main contacts					
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²				
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				
at AWG cables for main contacts	2x (18 14), 2x 12				
type of connectable conductor cross-sections					
for auxiliary contacts					
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)				
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)				
tightening torque for main contacts with screw-type terminals	0.8 1.2 N·m				
 tightening torque for auxiliary contacts with screw- type terminals 	0.8 1.2 N·m				
design of screwdriver shaft	Diameter 5 to 6 mm				
size of the screwdriver tip	Pozidriv 2				
design of the thread of the connection screw					
for main contacts	M3				

 of the auxiliary 	and control contacts		M3				
Safety related data							
B10 value							
	with high demand rate acc. to SN 31920			5 000			
proportion of dangerous failures							
with low demand rate acc. to SN 31920		0	50 %				
• with high demand rate acc. to SN 31920		20	50 %				
failure rate [FIT]							
• with low demand rate acc. to SN 31920		0	50 FIT				
T1 value for proof test interval or service life acc. to IEC 61508		life acc. to	10 у				
protection class IP	on the front acc. to IE	C 60529	IP20				
touch protection on	the front acc. to IEC	60529	finger-safe, for vertical contact from the front				
display version for sv	display version for switching status			Handle			
Certificates/ approva	ls						
General Product A	pproval				For use in hazardous locations		
			KC	EAC	IECE×		
For use in hazardous locations	Declaration of Con	formity	Test Certificates		Marine / Shipping		
ATEX ATEX	<u>Miscellaneous</u>	CE EG-Konf.	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	<u>Special Test</u> <u>Certificate</u>	ABS		
Marine / Shipping							
BUREAU VERITAS	Lloyds Register us	PRS	RINA	RARS	DNV-GL		
other		Railway					
<u>Confirmation</u>		<u>Confirmation</u>	Vibration and Shock				
Further information							

 Further information

 Information- and Downloadcenter (Catalogs, Brochures,...)

 https://www.siemens.com/ic10

 Industry Mall (Online ordering system)

 https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-0AA15

 Cax online generator

 http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0AA15

 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

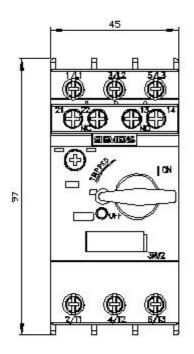
 https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0AA15

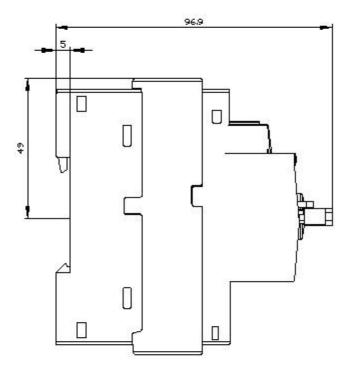
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

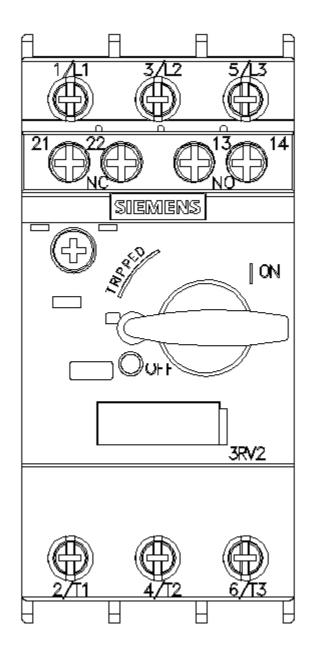
 http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0AA15&lang=en

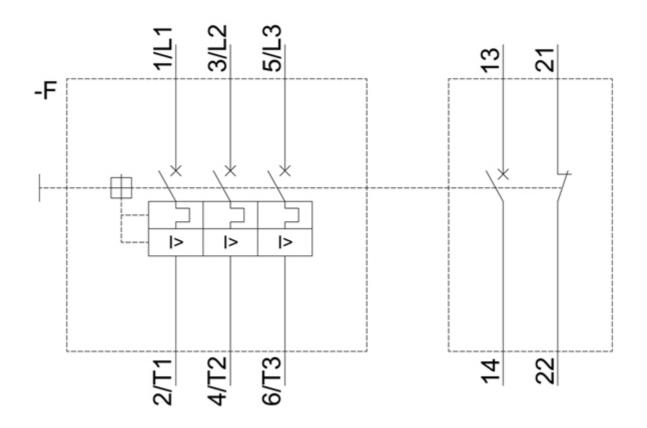


Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0AA15/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0AA15&objecttype=14&gridview=view1









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